

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 450 (ANNAPOLIS ROAD) AND RACE TRACK ROAD IN PRINCE GEORGE'S COUNTY, MARYLAND. MD 450 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA FOUR-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 450 APPROACHES OPERATING CONCURRENTLY AND THE RACE TRACK ROAD APPROACH OPERATING ALONE.

EXCLUSIVE/PERMISSIVE LEFT-TURN PHASING IS PROVIDED FOR THE EASTBOUND MD 450 APPROACH.

AN ALTERNATE PEDESTRIAN PHASE WILL BE PROVIDED ACROSS THE WEST LEG OF MD 450. PEDESTRIAN INDICATIONS WILL BE PROVIDED ACROSS RACE TRACK ROAD.

EMERGENCY PRE-EMPTION PHASE IS PROVIDED FOR THE EASTBOUND MD 450 APPROACH.

TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS

WEST LEG - MD 450 AND RACE TRACK ROAD

WAIT: "WAIT TO CROSS MD ANNAPOLIS AT RACE TRACK."*

WALK: RAPID TICK

NORTH LEG - RACE TRACK ROAD AND MD 450

WAIT: "WAIT TO CROSS RACE TRACK AT ANNAPOLIS." *

WALK: RAPID TICK

* MESSAGE USED IF DISTANCE FROM NEAREST PUSHBUTTON FOR PERPIDICULAR CROSSING IS < 10'
** MESSAGE USED IF CROSSWALK DIVERGES FROM OR CONVERGES WITH PARALLEL TRAFFIC

NOTE: MESSAGES FOR INTERSECTION CONFIGURATIONS, VARYING FROM THE ABOVE ARE TO BE APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL BE USED.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9571	4 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF :
	- 2 EACH	R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS ANNAPOLIS ROAD"
	- 2 EACH	R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS RACE TRACK ROAD"

EQUIPMENT LIST "C"

NO EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.

STANDARD NO. MD-104.04-01 (SHOULDER WORK)
STANDARD NO. MD-104.04-03 (LEFT LANE CLOSURE)
STANDARD NO. MD-104.04-05 (RIGHT LANE CLOSURE)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. BRIAN YOUNG
PHONE: (301) 513-7404
ASSISTANT DISTRICT ENGINEER - TRAFFIC (PRINCE GEORGE'S)

MR. VERNON STINNETT
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (301) 513-7304

MR. AUGIE REBISH
DISTRICT UTILITY ENGINEER
PHONE: (301) 513-7350

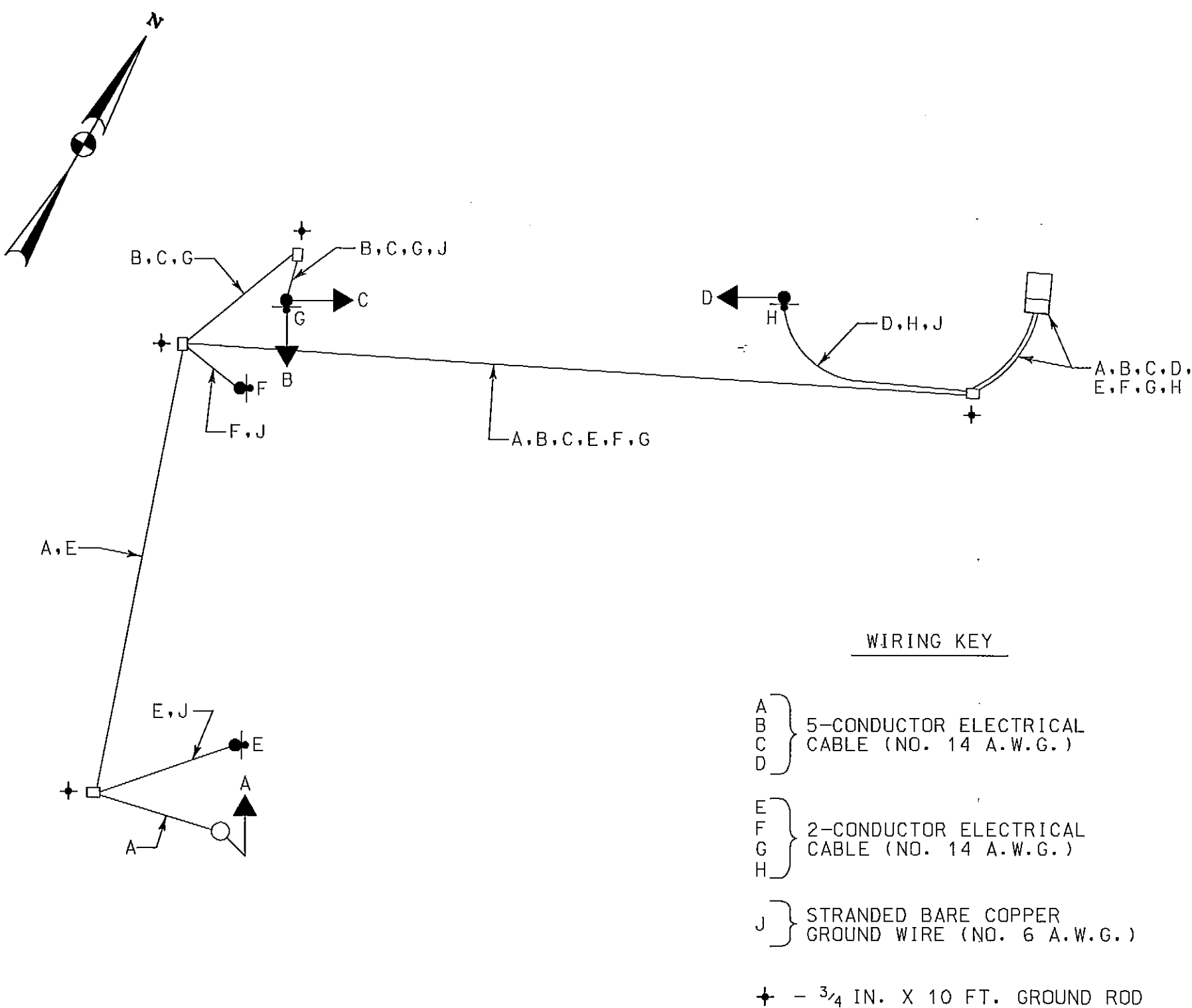
MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
1002	325 L.F.	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
2001	1 C.Y.	CLASS 2 EXCAVATION
2002	2 C.Y.	TEST PIT EXCAVATION
5002	255 L.F.	12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
5003	40 L.F.	24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
6001	15 L.F.	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6002	460 S.F.	5 INCH CONCRETE SIDEWALK
8001	29 EACH	12 INCH (R, Y, G) LED SIGNAL HEAD SECTION
8003	1 EACH	2 WIRE CENTRAL CONTROL UNIT
8007	3 EACH	8 INCH (R, Y, G) LED SIGNAL HEAD SECTION
8010	4 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGNS
8011	4 EACH	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8014	4 EACH	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEADS
8016	1 EACH	REM & DISPOSE MAT & EQUIP PER ASSIGN
8027	115 L.F.	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - TRENCHED
8028	51 S.F.	DETECTABLE WARNING SURFACES
8029	9 S.F.	RELOCATE EXISTING SIGN
8033	145 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8045	4 S.F.	INSTALL GROUND MOUNTED SIGN
8053	2 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8055	815 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8057	855 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

WIRING DIAGRAM



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12
PHASE 1 + 6	←G→	←G→	G	R	R	R	R	←R→	DW	DW	DW	DW
1 + 6 CHANGE	←G→	←G→	G	R	R	R	R	←R→	DW	DW	DW	DW
PHASE 2 + 6	G	G	G	G	G	G	R	R	WK	WK	DW	DW
PED CLEARANCE	G	G	G	G	G	G	R	R	FLOW	FLOW	DW	DW
2 + 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	DW	DW	DW	DW
PHASE 4	R	R	R	R	R	←R→	G	G	DW	DW	DW	DW
4 CHANGE	R	R	R	R	R	←R→	G	G	DW	DW	DW	DW
PHASE 4 ALT.	R	R	R	R	R	←R→	G	G	DW	DW	WK	WK
PED CLEARANCE	R	R	R	R	R	←R→	G	G	DW	DW	FLOW	FLOW
4 ALT. CHANGE	R	R	R	R	R	←R→	Y	Y	DW	DW	DW	DW
PRE-EMPTION 1	←G→	←G→	G	R	R	R	R	R	DW	DW	DW	DW
	←G→	←G→	G	R	R	R	R	R	DW	DW	DW	DW
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLY	FLR	FLR	DARK	DARK	DARK	DARK



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 450 and Race Track Road
Bowie, Maryland

GENERAL INFORMATION SHEET

SCALE NONE ADVERTISED DATE 7/17/2009 CONTRACT NO. XX4495185

DESIGNED BY S. Bloss COUNTY Prince George's

DRAWN BY S. Bloss LOGMILE 16045013.01

CHECKED BY N. Leary TMS NO. J375

F.A.P. NO. TOD NO.

TS NO. 139 H DRAWING TSP-3 OF 3 SHEET NO. 3 OF 3



WHITMAN, REQUARDT
& ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21231